

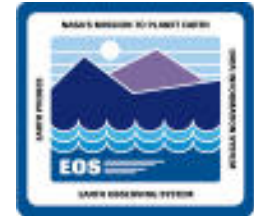
Release Overview

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Ir1 Mission



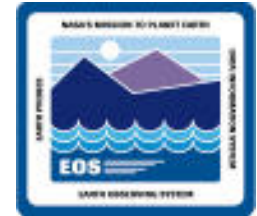
Interim Release 1, Ir1 (a.k.a. TRMM Infrastructure Release) is a Release A precursor deployed to selected ECS sites to support:

- **Early TRMM & EOS AM-1 science software I&T at 4¹ DAACs**
 - **Provide environment to support science software development**
 - **Test portability of Science Software to DAAC environment**
 - **Refine the integration and test process**
 - **Gain experience for Release A operational SSI&T**
 - **Test operation of the DAAC toolkit²**
- **EGS I&T to support TRMM-ECS interface integration and testing**
 - **Joint ESDIS / TRMM Project Test**
 - **Test CERES & LIS L0 ingest from SDPF at LaRC and MSFC¹**
 - **Test L1 and other TRMM data ingest/output with TSDIS at GSFC and MSFC¹ DAACs**
 - **Test NOAA/NESDIS and DAO ingest interfaces**
 - **Engineering test support for TSDIS Interface (Kerberos)**
- **Verification of the ECS communications and management infrastructure**

¹ MSFC Ir1 DAAC to be set-up at GSFC per direction

² Ir1 Toolkit based on Release 5 (32-bit)

Capabilities Summary



75,000 lines of developed code (including SCF Toolkits) integrated with 32 COTS software packages on 5 Unix platforms across 4 sites providing:

- **Prototype PDPS (10,000 lines of code)**
 - Uses the Release A COTS, Autosys (expanded scope since Ir1 initiation to make Ir1 more realistic)
 - Manual processing plan generation
 - Manual processing initiation and control
 - Basic processing management
- **SSI&T Tools (6,000 lines of code)**
 - Utilities/tools (documentation viewing tools, file comparison tool, product metadata display tool, product visualization/graphics tool, profiling tools)
 - Static & dynamic code checkers for standards compliance
 - Compilers (C, C++, FORTRAN 77 & 90; ADA, LaRC)
 - Math, statistics and graphics libraries
 - Software configuration management

Capabilities Summary (cont.)



SCF and DAAC Toolkits (36,000 lines of code)

- SCF version (TK5) provides ECS emulation environment for IT development
- DAAC version (based on TK5) includes extensions to the SCF version such as event reporting through the MSS

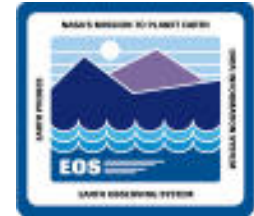
Interface Test Suite (8,000 lines of code)

- Communications gateway (sockets-to-DCE conversion & session control)
- Ingest and Data Server subsystem client stubs and server emulators

ECS Infrastructure (15,000 lines of code)

- Basic naming and directory, time, thread and security services (DCE-based)
- ftp, email, bulletin board, event logger, virtual terminal (telnet and X)
- EDF-based management framework with site-based COTS, SNMP agents for hosts and, as provided, for V0 network components
- Authentication (DCE account mgt), authorization (host-level account mgt), router-based security (address table mgt)
- Site-based OA tools (word processor, spreadsheet, Web browser)

Ir1 COTS Software



<u>Vendor</u>	<u>Package</u>
HP	OpenView
Atria	ClearCase
RSI	IDL
Visual Num.	IMSL
ICS	Builder Accessory
Insignia	SoftWindows
Microsoft	MS Office
SGI/Sun/HP	DCE clients
	DCE development kits
Transarc	DCE servers
Sybase	OpenClient
	Open SQL Server
	Devel. kit (EDC)
4D	Scheduler (Autosys)
NAG	FORTRAN90
Verdix	Ada compiler
McBride	Xterminal, NCD boot

<u>Vendor</u>	<u>Package</u>
SGI	IRIX 5.3 and 6.0.1
	C++ compiler (6.x)
	ANSI/IRIS C compiler (6.X)
	FORTRAN 90 compiler
	MIPSPPro F77 compiler
	Motif, NFS, SNMP Agent
	CASEVision
	NFS
Sun	Solaris 2.x
	C products (Ver 3.0.1)
	FORTRAN products (3.0.1)
	Dev. Products A La Carte
	SPARCWorks
	SNMP Agent
HP	HPUX
	Shared X, SNMP Agent

Configuration

